

1.1 HGeo Wups#1 8/23/10

Use Inductive Reasoning (i.e. look for patterns!) to find the next two terms of each sequence.

① $\frac{1}{1}, \frac{1}{2}, \frac{1}{4}, \frac{1}{8} \dots$

② $1, -1, 2, -2, 3 \dots$

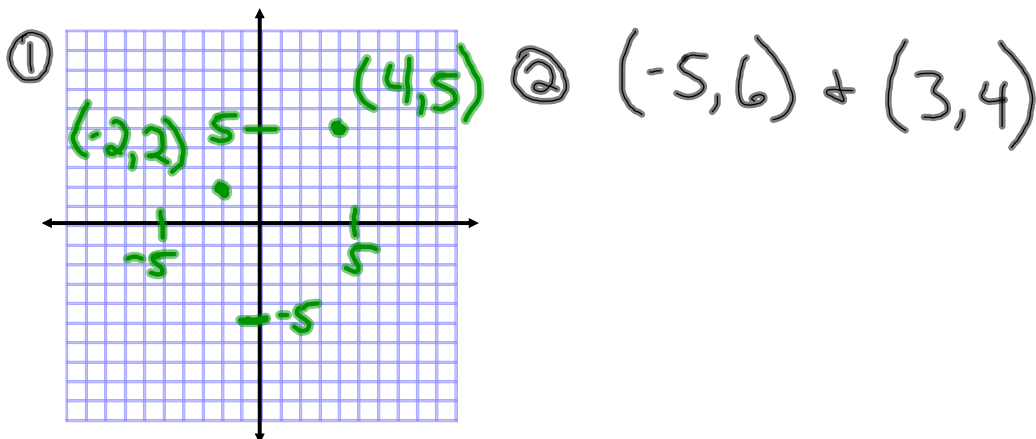
③ J, F, M, A, M \dots

④ $1, 1, 2, 3, 5, 8 \dots$

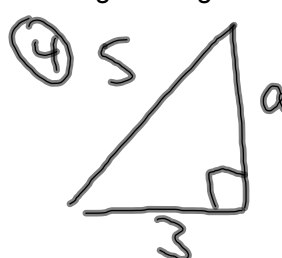


HGeo Wups#2 8/24/10

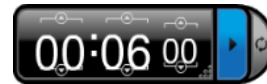
Find the slope between the two points.



Find the missing side length in the right triangle.



HGeo Wups #3 8/26/10



Use inductive reasoning to fill out the rest of the table.

①

3	15
4	20
5	25
6	30
10	?
20	?
n	?

②

2	4
3	9
4	16
5	25
6	?
10	?
n	?

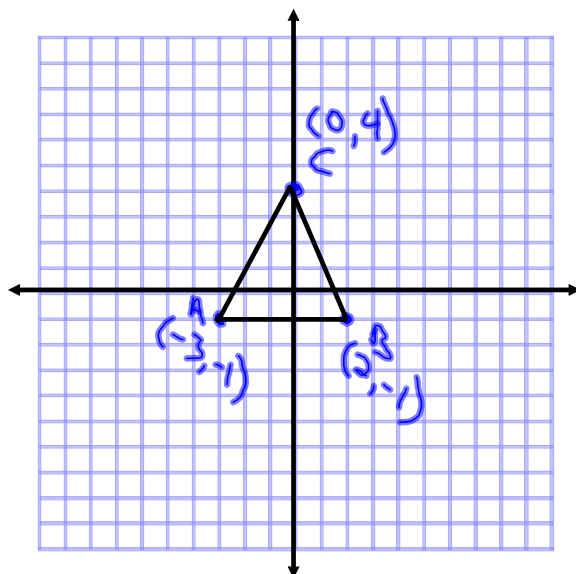
Solve each equation for the unknown variable.

③ $6x + 7 = 2x + 59$ ④ $5b + 17 = 4(b + 3)$

⑤ $-32 + 3x - 3(x - 15) + 2x - 9 = 7$

HGeo Wups #4 9/3/10

Find the perimeter and area of the triangle in the Coordinate Plane.



HGeo Wups #5 8/31/10

Draw obtuse angle PQR. Copy angle PQR and call the copy angle XYZ. Then CONSTRUCT the angle bisector of angle XYZ.

Draw segment AB. Then CONSTRUCT the perpendicular bisector of the segment.

HGeo Wups #6 9/7/10

With each of the following statements:

- a) identify the HYPOTHESIS and CONCLUSION.*
- b) write the statement as a CONDITIONAL statement.*
- c) write the CONVERSE of the conditional statement.*
- d) if both the CONDITIONAL and the CONVERSE are true, write the statement as a BI-CONDITIONAL. If one or the other is false, provide a COUNTEREXAMPLE.*

1) All carrots are vegetables

2) Two congruent figures have equal areas